

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 13+30 to 14+45**Date: 09/02/2005**

<div>Dredging</div> <div><u>Load Number</u></div> <div>829 #1</div> <div><u>Tidal Stage</u></div> <div>Flood</div> <div><u>Dredge State:</u></div> <div>Overflow through skimmers only</div> <div><u>Weather:</u></div> <div>Overcast</div> <div><u>Wind:</u></div> <div>0-5 kts</div> <div><u>Seas:</u></div> <div>0'-1'</div> <div><u>Disposal location</u></div> <div>Columbia River DWS</div>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	18.5	7:41:22	7360937.70	939477.92	3.3	
	DR-2	19.4	7:43:07	7360269.34	939456.77	48.0	9.6
	DR-2R1	20.2	7:43:13	7360252.22	939451.39	44.6	9.6
	DR-4	19.4	7:44:31	7359522.75	939177.26	3.8	
	DR-4R1	19.0	7:44:37	7359505.63	939171.88	3.6	
	DR-3	18.5	7:46:37	7360070.19	939647.47	3.5	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 taken out of the plume, on port side.							
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Load Number</u>	DR-1	20.0	8:29:17	7359934.24	939628.74	3.2	
829 #2	DR-2	19.9	8:30:37	7359446.73	939587.99	9.5	6.5
<u>Tidal Stage</u>	DR-2R1	20.0	8:30:44	7359446.73	939587.99	16.4	6.4
Flood	DR-4	19.7	8:32:00	7358756.21	939336.62	15.6	
<u>Dredge State:</u>	DR-4R1	19.4	8:32:06	7358756.21	939336.62	16.6	
Overflow through	DR-3	18.6	8:34:00	7359857.25	940118.59	30.8	
skimmers only	DR-3R1	19.2	8:34:10	7359857.25	940118.59	16.3	
<u>Weather:</u>							
Rainy							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0'-1'							
<u>Disposal location</u>							
Columbia River DWS							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-2R1 DO reading between 6.5-6.0(Mg/L).	Dredging modified(see below).
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of the plume,	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity and reducing the DO at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.
A second test was taken on this load because dredging lasted	
for over 2 hours.	

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

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Dredging <u>Load Number</u> 830 #1 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through side discharge <u>Weather:</u> Partly Cloudy <u>Wind:</u> 0-5 kts <u>Seas:</u> 0-1' <u>Disposal location</u> Columbia River DWS	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	19.7	14:31:38	7358685.51	939363.87	1.5	
	DR-2	21.3	14:43:08	7360430.99	939894.21	13.6	7.5
	DR-2R1	21.2	14:43:11	7360439.17	939887.79	11.1	7.4
	DR-4	20.4	14:45:00	7360714.02	939791.30	23.4	
	DR-4R1	20.4	14:45:03	7360714.02	939791.30	20.0	
	DR-3	20.8	14:48:02	7358937.05	939931.43	2.4	
	DR-3R1	21.3	14:48:06	7358937.05	939931.43	2.1	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of the plume, on starboard side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Load Number</u>	DR-1	21.5	15:41:57	7360888.74	939212.26	1.7	
830 #2	DR-2	21.1	15:43:58	7360422.32	939170.63	13.8	9.7
<u>Tidal Stage</u>	DR-2R1	21.0	15:44:01	7360422.32	939170.63	12.0	10.0
Ebb	DR-4	19.5	15:46:03	7359695.20	939261.41	30.0	
<u>Dredge State:</u>	DR-4R1	19.2	15:46:07	7359686.52	939255.68	24.0	
Overflow through	DR-3	20.5	15:48:39	7359888.27	939435.96	5.7	
skimmers only	DR-3R1	20.4	15:48:51	7359888.27	939435.96	5.7	
<u>Weather:</u>							
Partly Cloudy							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0-1'							
<u>Disposal location</u>							
Columbia River DWS							

Remarks:**Action Taken:**

DR-2 exceeded 10% over background, taken in the plume.

Re-test DR-2R1 was taken.

DR-4 exceeded 10% over background, taken in the plume.

Re-test DR-4R1 was taken.

DR-3 exceeded 10% over background, taken out of the plume,
on starboard side

Re-test DR-3R1 was taken.

A second test was taken on this load because dredging lasted
for over 2 hours.The dredge moved away from the area while continuing dredging to avoid
further increasing the turbidity at the location where the exceedence was
measured. The dredge coordinates were marked on the GPS screen to
insure no further dredging occurred at the location where the exceedence
was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		